

DYNAMIC RANGE COMPRESSION OF OUTPUT CHANNEL DATA OF  
AN IMAGE SENSOR

ABSTRACT OF THE DISCLOSURE

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A method (S100) for dynamic range compression of  
 output channel data from an image sensor (2)  
 comprising an array of sensor cells. The method  
 (S100) comprises selecting a window (S130) in the  
 channel data, the window having a reference pixel  
 value and a plurality of nearby pixel values. The  
 reference pixel value originates from a reference  
 cell that is one of the sensor cells and the nearby  
 pixel values originate from the sensor cells that are  
 in close proximity to the reference cell. There is a  
 step of multiplying (S140) the pixel values, in the  
 window, by a respective weight value to provide  
 weighted pixel values and then adding (S150) the  
 weighted pixel values to provide a convolution value.  
 Thereafter, there is a step of providing (S160) a  
 dynamic range compression value for the window from a  
 selected one of the pixel values and said convolution  
 value and then an assigning step (S170) assigns the  
 dynamic range compression value to a selected pixel  
 location comprising part of an image.

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